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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/754,618	01/12/2004	Tadahiko Yokota	246374US0CONT	8554
22850	7590 09/26/2005		EXAM	INER
OBLON, S 1940 DUKE	•	ND, MAIER & NEUSTADT, P.C.	LAM, CATHY FONG FONG	
	RIA, VA 22314		ART UNIT	PAPER NUMBER
	,		1775	

DATE MAILED: 09/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/754,618	YOKOTA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Cathy Lam	1775	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet w	ith the correspondence addre	SS
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 136(a). In no event, however, may a will apply and will expire SIX (6) MO te, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this comm. BANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on 07 J	July 2005.		
	s action is non-final.		
3) Since this application is in condition for allowed	ance except for formal mat	ters, prosecution as to the me	erits is
closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Disposition of Claims		•	
4) Claim(s) 1-22 is/are pending in the application	٦.		
4a) Of the above claim(s) 15-21 is/are withdra	wn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-14 and 22</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) ☐ The specification is objected to by the Examin	er.		
10)⊠ The drawing(s) filed on <u>12 January 2004</u> is/are	e: a)⊠ accepted or b)□ o	objected to by the Examiner.	
Applicant may not request that any objection to the	- · · · · · · · · · · · · · · · · · · ·	` '	
Replacement drawing sheet(s) including the correct			
11) ☐ The oath or declaration is objected to by the E	xaminer. Note the attache	d Office Action or form PTO-	152.
Priority under 35 U.S.C. § 119			
12)⊠ Acknowledgment is made of a claim for foreign a)⊠ All b)□ Some * c)□ None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
1.⊠ Certified copies of the priority documen	its have been received.		
2. Certified copies of the priority documen		Application No	
3. Copies of the certified copies of the price		• • • • • • • • • • • • • • • • • • • •	ige
application from the International Burea	au (PCT Rule 17.2(a)).		
* See the attached detailed Office action for a list	t of the certified copies no	t received.	
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) TInterview	Summary (PTO-413)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date	•
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date <u>07-07-2005</u>. 	5) Notice of 6) Other:	Informal Patent Application (PTO-15)	2)
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In view of the amendment and remarks filed on July 07, 2005, the newly added claim 22 is acknowledged, the pending claims are unpatentable as following:

Election/Restrictions

1. This application contains claims 15-21 are drawn to an invention nonelected with traverse in Paper filed on July 07, 2005. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144) See MPEP § 821.01.

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-14 and 22 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9, 14-25, 30-48 and 53-56 of U.S. Patent No. 6,403,221. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are materially and structurally similar. Claim 1 of 6403221, the epoxy resin composition is the same as the presently claimed B layer. In claim 5 of 6403221, a supporting base film is

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disclosed in the specification as a polymeric resin film such as a polyimide, a release paper, or a metal foil such as copper foil (col 6 L 5-9). The present invention regards to a B layer that is roughenable and is placed adjacent to a heat-resistant resin layer, preferably a polyimide layer (P. 7 L 17), or the B layer is adjacent to a peelable support film (or a release paper), or the B layer is adjacent to a copper conductor layer.

3. Claims 1-14 and 22 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-9, 14-17, 23-24, 26-35, 40-43 and 50-52 of U.S. Patent No. 6,805,958. Although the conflicting claims are not identical, they are not patentably distinct from each other because they are structurally and materially similar (see USPN 6,805,958 column 6, lines 10-15 & 28-35).

Response to Arguments

- 2. Applicant's arguments filed on July 07, 2005 have been fully considered but they are not persuasive. Applicant traverses the obviousness type double patenting and raises the following issues:
- A. Applicant in the remarks argues that both Nakamura's references claim the epoxy resin contains phosphorus atom whereas the present invention does not.
- B. The present invention is claiming a glass transition point or a decomposition temperature which is not claimed in the two Nakamura's references.

In respond to the above issues:

A. The specification of the present invention discloses that the thermosetting resin

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layer (ie. layer B) may contain a curing accelerator that contains organic phosphine type compound (page 9 L 9-10).

The claims in the present invention does not exclude phosphorus atom.

B. The examiner takes the position that although the prior art are silent about the glass transition point, inherently they possess the same T_g because the epoxy resin materials are essentially the same.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cathy Lam whose telephone number is (571) 272-1538. The examiner can normally be reached on 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cathy Lam

Primary Examiner

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cfl

September 19, 2005